

# 25th Annual Conference on **Analysis of Pollutants in the Environment**

May 7-9, 2002

Sheraton Norfolk Waterside Hotel  
Norfolk, Virginia U.S.A.

## **IMPORTANT DATES:**

Hotel Reservations By **APRIL 11**

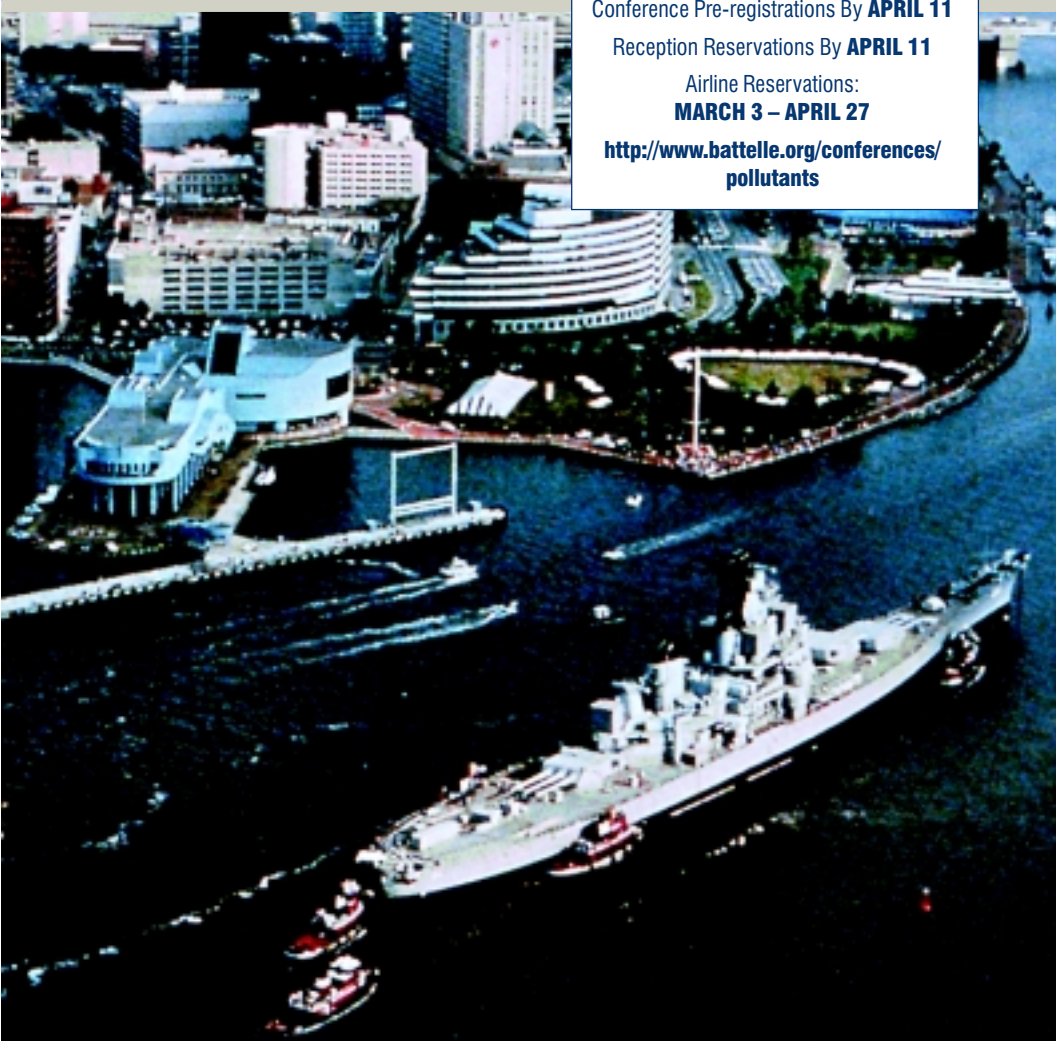
Conference Pre-registrations By **APRIL 11**

Reception Reservations By **APRIL 11**

Airline Reservations:

**MARCH 3 – APRIL 27**

[http://www.battelle.org/conferences/  
pollutants](http://www.battelle.org/conferences/pollutants)



**Jointly sponsored by Battelle and  
the United States Environmental Protection Agency.**

# Key Highlights

The 25<sup>th</sup> Annual Conference on Analysis of Pollutants in the Environment is jointly sponsored by **Battelle** and the **United States Environmental Protection Agency**. The conference will be held May 7-9, 2002, at the Sheraton Norfolk Waterside Hotel in Norfolk, Virginia, U.S.A. This conference continues to be recognized as the leading forum for discussion of technical issues related to environmental water regulations and compliance monitoring. This year, the conference program will include technical presentations on field techniques, bacteriological tracking, site investigation, organics analysis, sample preservation and holding times, metals analysis, bioassay, whole effluent toxicity, and microbiological methods. Representatives from EPA's Office of Water will present the most recent developments in technology for use in your laboratory. Presenters also include State and independent laboratory experts, Federal and State regulatory personnel, and consultants in the environmental measurements field. Question and answer sessions will follow each presentation. A workshop on "Surviving a Laboratory Audit" will be presented on Tuesday, May 7, from 1:30 to 5:00 p.m.

## Specifically designed for environmental professionals from -

- Commercial environmental laboratories
- Regulated industries
- State and Federal regulatory agencies
- Consulting and contracting firms
- Municipal water & wastewater laboratories
- Laboratory equipment manufacturers

## Program Schedule

<b>MON. MAY 6</b>	4:00 p.m. - 6:00 p.m.	Early Registration Check-in
<b>TUES. MAY 7</b>	7:45 a.m. - 2:00 p.m.	Registration Check-in
	8:45 a.m. - 12 Noon	Conference Presentations: Field Techniques, Bacteriological Tracking, and Site Investigation
	1:30 p.m. - 5:00 p.m.	Workshop: Surviving a Laboratory Audit
<b>WED. MAY 8</b>	7:45 a.m. - 2:00 p.m.	Registration Check-in
	8:45 a.m. - 11:45 a.m.	Conference Presentations: Organics Analysis
	1:00 p.m. - 4:15 p.m.	Conference Presentations: Sample Preservation and Holding Times, Metals Analysis, and Bioassay
	5:30 p.m. - 8:30 p.m.	25 <sup>th</sup> Anniversary Reception at Nauticus and Tour of the Battleship Wisconsin
<b>THURS. MAY 9</b>	8:00 a.m. - 10:00 a.m.	Registration Check-in
	8:30 a.m. - 10:00 a.m.	Conference Presentations: Whole Effluent Toxicity and Microbiological Methods
	10:15 a.m. - 12 Noon	Special Session: Demonstration of <i>E. coli</i> and Enterococci Methods Proposed by EPA for Use in Recreational Water Monitoring

Jointly sponsored by:



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**EPA**

# Technical Program

## Tuesday, May 7, 2002

### WELCOME AND STATUS OF OFFICE OF WATER ACTIVITIES

- 8:45 a.m. **Welcome**  
Robert G. Beimer, Battelle
- 9:00 a.m. **Opening Remarks**  
William Telliard, U.S. EPA Office of Science & Technology, Engineering and Analysis Division
- 9:15 a.m. **Office of Water Activities**  
James Hanlon, Deputy Director, U.S. EPA Office of Water

### FIELD TECHNIQUES

- 9:45 a.m. **Comparison of Field Collection Techniques and Filtration Procedures for Determination of Chlorophyll in Ambient Waters**  
R.E. Stewart, D.H. Smith, and T.Y. Du, Virginia Department of Environmental Quality
- 10:15 a.m. Break

### BACTERIOLOGICAL TRACKING

- 10:30 a.m. **Microbial Source Tracking: Principles and Practice**  
Mansour Samadpour, University of Washington
- 11:00 a.m. **Source Tracking of Bacteria: A Case Study**  
Ward Staubit, U.S. Geological Survey

### SITE INVESTIGATION

- 11:30 a.m. **The Destruction of the World Trade Center and PCBs, PBDEs, PCDD/Fs, PBDD/Fs, and Chlorinated Biphenylenes in Water, Sediment, and Sewage Sludge**  
Simon Litten, New York State Department of Environmental Conservation, D. McChesney, U.S. EPA Region II; and Brian Fowler and M.C. Hamilton, Axys Analytical Services
- 12:00 Noon Lunch
- 1:30-5:00 p.m. **Workshop - Surviving a Laboratory Audit**  
**U.S. EPA Staff:** Nancy Wentworth, Office of Research and Development, Quality Assurance Division; Joseph Slayton, U.S. EPA Region III, Environmental Science Center; U.S. EPA Drinking Water Representative; **State of Arizona:** Steve Baker
- 5:00 p.m. Adjourn

## Wednesday, May 8, 2002

### ORGANICS ANALYSIS

- 8:45 a.m. **Determination of the Congener Distribution in Aroclors to the Sub-ppm Level**  
Coreen Hamilton, Katherine Kaye, and Brian Fowler, Axys Analytical Services
- 9:15 a.m. **Application of Aroclor Toxicity Equivalents to Historic Aroclor Data and to Non-detects**  
Andy Beliveau, U.S. EPA Region I
- 9:45 a.m. **Navigating EPA's Alternate Test Procedure for Development of an Alternate Chlorophenolics Procedure: Process and Results**  
Diana Cook, Glenn Wilson, and Michelle Wrabel, National Council for Air and Stream Improvement
- 10:00 a.m. Break
- 10:15 a.m. **Polybrominated diphenyl ethers: An Emerging Environmental Problem**  
Mehran Alaee, Canadian Center for Inland Waters
- 10:45 a.m. **Polybrominated diphenyl ethers by Gas Chromatography with an Electron Capture Detector**  
Robert Rieck, U.S. EPA Region X, Manchester Laboratory
- 11:15 a.m. **Polybrominated diphenyl ethers by HRGC/HRMS**  
Coreen Hamilton, Brian Fowler, and Louis Haviland, Axys Analytical Services
- 11:45 a.m. Lunch

# Technical Program

## SAMPLE PRESERVATION AND HOLDING TIMES

- 1:00 p.m. **Study Supporting Extension of the Unpreserved Mercury Holding Time to 28 Days**  
Mark Bruce, Scott Irwin, and Patrick O'Meara, Severn Trent Laboratory, Canton, Ohio
- 1:30 p.m. **Effect of Freezing on Concentrations of Classical Pollutants**  
Khouane Ditthavong, U.S. EPA Office of Science & Technology, Engineering and Analysis Division
- 2:00 p.m. **Effect of Starting Temperature, Ice Placement, and Other Variables on Length of Time that Samples Remain Below 4 °C in a Picnic Cooler**  
William Telliard, U.S. EPA Office of Science & Technology, Engineering and Analysis Division
- 2:30 p.m. Break

## METALS ANALYSIS

- 2:45 p.m. **Determination of Arsenic Species in Fish and Their Impact on Fish Advisories**  
Eric Crecelius, Margaret O'Neill, and Tim Fortman, Battelle Marine Sciences Laboratory
- 3:15 p.m. **Results of the Interlaboratory Validation of EPA Method 245.7: Mercury in Water by Cold-vapor Atomic Fluorescence**  
Maria Gomez-Taylor, U.S. EPA Office of Science & Technology, Engineering and Analysis Division

## BIOASSAY

- 3:45 p.m. **Comparison of Results of Determination of Dioxin-like Toxicity by Cell-line Bioassays and HRGC/HRMS**  
Harry McCarty, DynCorp Information & Enterprise Technology, Inc.
- 4:15 p.m. Adjourn
- 5:30-8:30 p.m. **25<sup>th</sup> Anniversary Conference Reception at Nauticus and Tour of the Battleship Wisconsin**

*Battelle invites all conference participants and their guests to take part in the 25<sup>th</sup> Anniversary Conference Reception at Nauticus and tour the Battleship Wisconsin. Hors d'oeuvres will be served and a cash bar will be available. The guest fee for the reception is \$25.00 per person. There is no reception fee for participants registered for the full conference. For information, please contact Andrea Grew at 781-952-5290, or via e-mail, [grewa-c@battelle.org](mailto:grewa-c@battelle.org).*

## Thursday, May 9, 2002

### WHOLE EFFLUENT TOXICITY

- 8:30 a.m. **Grading on a Curve: How to Use Laboratory Control Charts and Other QA/QC Data to Interpret Toxicity Test Results**  
Tim Moore, Risk Sciences; and Jim Pletl, Hampton Roads Sanitation District

### MICROBIOLOGICAL METHODS

- 9:00 a.m. **Interlaboratory Validation of EPA Method 1605 for *Aeromonas* in Water**  
Misty Pope, Ken Miller, Kevin Connell, Jessica Pulz, Chris Maynard, Ben Meadows, and Kyle May, DynCorp Information & Enterprise Technology, Inc.; and Mary Ann Feige, U.S. EPA OGWDW TSC, Cincinnati
- 9:30 a.m. **Are Current Microbiological Method Holding Times Meaningful? An Assessment of the Stability of Multiple Pathogens in Wastewater at Multiple Times and Temperatures**  
Robin Oshiro, U.S. EPA Office of Science and Technology, Engineering and Analysis Division; and Misty Pope, Kevin Connell, Jessica Pulz, Ken Miller, and Yildiz Chambers, DynCorp Information & Enterprise Technology, Inc.
- 10:00 a.m. Break
- 10:15 a.m. **Special Session: Demonstration of *E. coli* and Enterococci Methods Proposed by EPA for Use in Recreational Water Monitoring**  
Robin Oshiro and Marion Kelly, U.S. EPA Office of Science and Technology, Engineering and Analysis Division
- 12 Noon Adjourn

# Hotel/Travel Information

## Hotel Information

Sheraton Norfolk Waterside Hotel  
777 Waterside Drive, Norfolk, VA 23510  
757-622-6664

You may make reservations directly with the hotel by calling 757-622-6664 or 800-325-3535. (The 800 number is for calls made in the continental United States only.) Please ask for Reservations, identify the group block as the **25th Annual Conference**, and specify Government or Non-government reservations. The group rates quoted below will be available until **5:00 p.m. Eastern Time on April 11, 2002, or until the room block is sold out**. Reservations made after April 11 or after the block is sold out, will be subject to availability and room rate increases. All reservation requests must be accompanied by a first night's room deposit, or guaranteed with a major credit card at the time the reservation is made.

### Single/Double Occupancy

\*Government/Academia Room Rate:

\$109.00

Non-government Room Rate:

City View: \$119.00 / Harbor View: \$129

*\*Federal, State, and local government guests will be required to present a picture identification issued by the employing agency to receive the quoted government room rate. Academia guests requesting the discounted rate will be required to provide a picture identification issued by the sponsoring institution.*

**All guest room rates are subject to the current tax rate of 11.5%.** Each additional person occupying a room will increase the room rate an additional \$20.00 plus tax.

### **Hotel check-in time is 4:00 p.m.; check-out time is prior to 12 Noon. Cancellation Policy:**

All cancellations must be received 72 hours prior to arrival to avoid cancellation penalty. Please request a cancellation number at the time of cancellation. Any reservation canceled within 72 hours of arrival will be charged a penalty of one night's room rate. **Parking:** Parking is available at the Dominion Tower parking garage adjacent to the Hotel. Self-parking is \$8.00 per day with hotel validation of the parking ticket. Valet parking is available upon request and is currently \$12.00 per day. Parking rates are subject to change.

## Transportation

**By Air** — American Airlines and US Airways are the official carriers for the 25<sup>th</sup> Annual Conference on Analysis of Pollutants in the Environment to Norfolk International Airport. To obtain an airfare discount, you or your professional travel consultant must call the numbers listed below and provide the referenced Star File or Gold File numbers.

**American Airlines Group & Meeting Travel: 800-433-1790** (toll free); 5:00 AM - 11:59 PM, Central Time; refer to **Star File Number A5352AM**

**US Airways Group & Meeting Travel: 877-874-7687** (toll free); 8:00 AM - 9:30 PM, Eastern Time; refer to **Gold File Number 11692305**.

Discounted fares are valid on round trip travel scheduled May 3-12, 2002. Travel may be booked 60 days to 7 days prior to the scheduled arrival date. For information on airline restrictions, please visit the conference website at <http://www.battelle.org/conferences/pollutants/travelrestrictions> or call Jan Kourmadas at 757-258-8503.

**Airport to Hotel Transportation** — Brown Airport Sedan Service provides shuttle service from the airport to the Sheraton Norfolk Waterside. The current rate is \$15.00 one way, per passenger. Brown is located outside baggage claim at the booth marked "Airport Shuttle." For further information call 757-857-3991. **Car Rental** — Avis car rental discounts are available. Call 800-831-2847 and refer to AWD#B136000.

**By Train** — The City of Newport News (Norfolk) is served by Amtrak (800-USA-RAIL or 800-872-7245). Daily service to Newport News (Norfolk) is available from Boston, New York, Philadelphia, and Washington, DC. The Amtrak station is located at 9304 Warwick Blvd, Newport News, VA, approximately 30 minutes from Norfolk.

**Local Transportation** — The **NET** (Norfolk's Electric Transportation) provides free transportation throughout the downtown area. The NET buses run every six to eighteen minutes from 6:30 a.m. until 11:00 p.m., Monday through Friday. There are 15 NET stops in downtown Norfolk including the Waterside Marketplace, adjacent to the Sheraton Hotel, Nauticus, and MacArthur Center. The Elizabeth River Ferry provides transportation between Portsmouth and Norfolk's Waterside Plaza daily from 7:00 a.m. to 10:00 p.m. The adult fare is \$ .75 per trip across the Harbor.

## Registration Information

Registration fees must be paid by April 11, 2002. Registration forms must be accompanied by payment. Prices quoted are in U.S. dollars and must be paid in U.S. dollars. Registrations received after April 11, 2002, will be charged a \$25 late fee.

### Registration Fees

*Full Conference	\$325.00
One Day Conference Session	\$150.00
Late Fee (Registrations received after April 11)	\$ 25.00
**Conference Reception Guests	\$ 25.00

*\*The full conference fee of \$325.00 includes all conference and workshop sessions, the 25th Anniversary conference reception, and a continental breakfast each morning. The continental breakfast will be served in the registration area one hour prior to the start of the program.*

*\*\*A conference reception fee of \$25.00 will be charged for all guests who are not registered as "Full Conference" participants. Guest reservations for the reception must be made by April 11, 2002.*

### Payment Information

Payment in U.S. currency must accompany the registration form. VISA, MasterCard, American Express, and company or personal checks will be accepted. Please make checks payable to Battelle. **Purchase orders will not be accepted.**

### Cancellations

Conference registration cancellations must be received by **April 11, 2002**. No conference registration refunds will be issued after this date. A 25% service fee will be charged on all conference registration cancellations. Transportation and hotel reservations cancellations are the responsibility of the registered individual.

## How to Register

**Register Online:** <http://www.battelle.org/conferences/pollutants>

Fax your registration form today with your credit card information.

**Fax Number:** 781-934-2124

Mail this form with your payment to:

**Address:** 25<sup>th</sup> Annual Conference  
Battelle  
397 Washington St.  
Duxbury, MA 02332

### Registration Questions?

Call Andrea Grew at 781-952-5290,  
or via email, [grewa-c@battelle.org](mailto:grewa-c@battelle.org)

**All registrations  
will be confirmed in  
writing by e-mail or fax.  
If you do not have an e-mail  
address or a fax number,  
you may call 781-952-5290  
to confirm receipt of  
your registration.**

# 25th Annual Conference Registration Form

Please print or type the information requested.

Name \_\_\_\_\_

Name for Badge \_\_\_\_\_

Title \_\_\_\_\_

Organization \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Country \_\_\_\_\_

Telephone \_\_\_\_\_ FAX No. \_\_\_\_\_

E-mail address \_\_\_\_\_

Check the appropriate boxes and complete the total fee line. If you check the "One Conference Day" box, please be sure to check the date you plan to attend.

☐ Full Conference (Includes conference/workshop sessions and reception) \$ 325

☐ 25th Anniversary Reception (No fee with Full Conference)

☐ One Conference Day (Select one day below) \$ 150

☐ Tuesday, 5/07

☐ Wednesday, 5/08

☐ Thursday, 5/09

☐ Late Registration Fee (Registrations after 4/11/02) \$ 25

☐ Conference Reception Guests (\$25 x (#) \_\_\_\_\_ =) \$ \_\_\_\_\_  
(\$25.00 per person for all guests not registered for the full conference.)

**TOTAL** \$ \_\_\_\_\_

**FORM OF PAYMENT:** ☐ Check Enclosed (*Payable to Battelle*)

☐ VISA ☐ American Express ☐ MasterCard

Credit Card Number \_\_\_\_\_ Exp. Date \_\_\_\_\_

Card Holder's Name \_\_\_\_\_

Signature \_\_\_\_\_

Authorized TOTAL \$ \_\_\_\_\_

**SPACE IS LIMITED — REGISTER EARLY!**

**Please indicate how you  
heard about the conference:**

☐ Brochure

☐ Technical Journal

☐ Internet Announcement

☐ Colleague/Friend

☐ Attended Previous Conference

☐ Other \_\_\_\_\_

**Fax or mail this form by April 11, 2002, to:**

Fax Number: 781-934-2124

Mail To: 25th Annual Conference  
Battelle  
397 Washington St.  
Duxbury, MA 02332

Registration Questions?

Please call Andrea Grew at 781-952-5290.